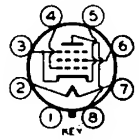
6SH7

H-F AMPLIFIER PENTODE

SINGLE-ENDED METAL TYPE WITH SHARP CUT-OFF

Heater■	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances:°		
Grid to Plate	0.003 max.	μμf
Input	8.5	μμf
Output	7.0	μμf
Maximum Overall Length		2-5/8"
Maximum Seated Height		2-1/16"
Maximum Diameter		1-5/16"
Bulb		Metal Shell, MT-8
Base		Small Wafer Octal, 8-Pin
Pin 1 - Shell		Pin 5 - Cathode
Pin 2 - Heater		Pin 6 - Screen
Pin 3 - Cathode		Pin 7 - Heater
Pin 4 - Grid		Pin 8 - Plate
Mounting Position	BOTTOM VIEW (8BK)	Any



Maximum And Minimum Ratings Are Design-Center Values

AMPLIFIER

Plate Voltage	300 max.	volts
Screen Voltage	150 max.	volts
Screen Supply Voltage	300 max.	volts
Grid Voltage	0 min.	volts
Plate Dissipation	3 max.	watts
Screen Dissipation	0.7 max.	watt

Typical Operation and Characteristics - Class A_1 Amplifier:

Plate Voltage	100	250	volts
Screen Voltage	100	150	volts
Grid Voltage	-1	-1	volts
Plate Resistance	0.35	0.9	approx. megohm
Transconductance	4000	4900	μmhos
Grid Bias for Plate Current = 10 μamp.	-4	-5.5	volts
Plate Current	5.3	10.8	ma.
Screen Current	2.1	4.1	ma.

NOTE: This type is not recommended for high-gain audio amplifier applications because undesirable hum may be encountered.

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

° With shell connected to cathode.

←Indicates a change.

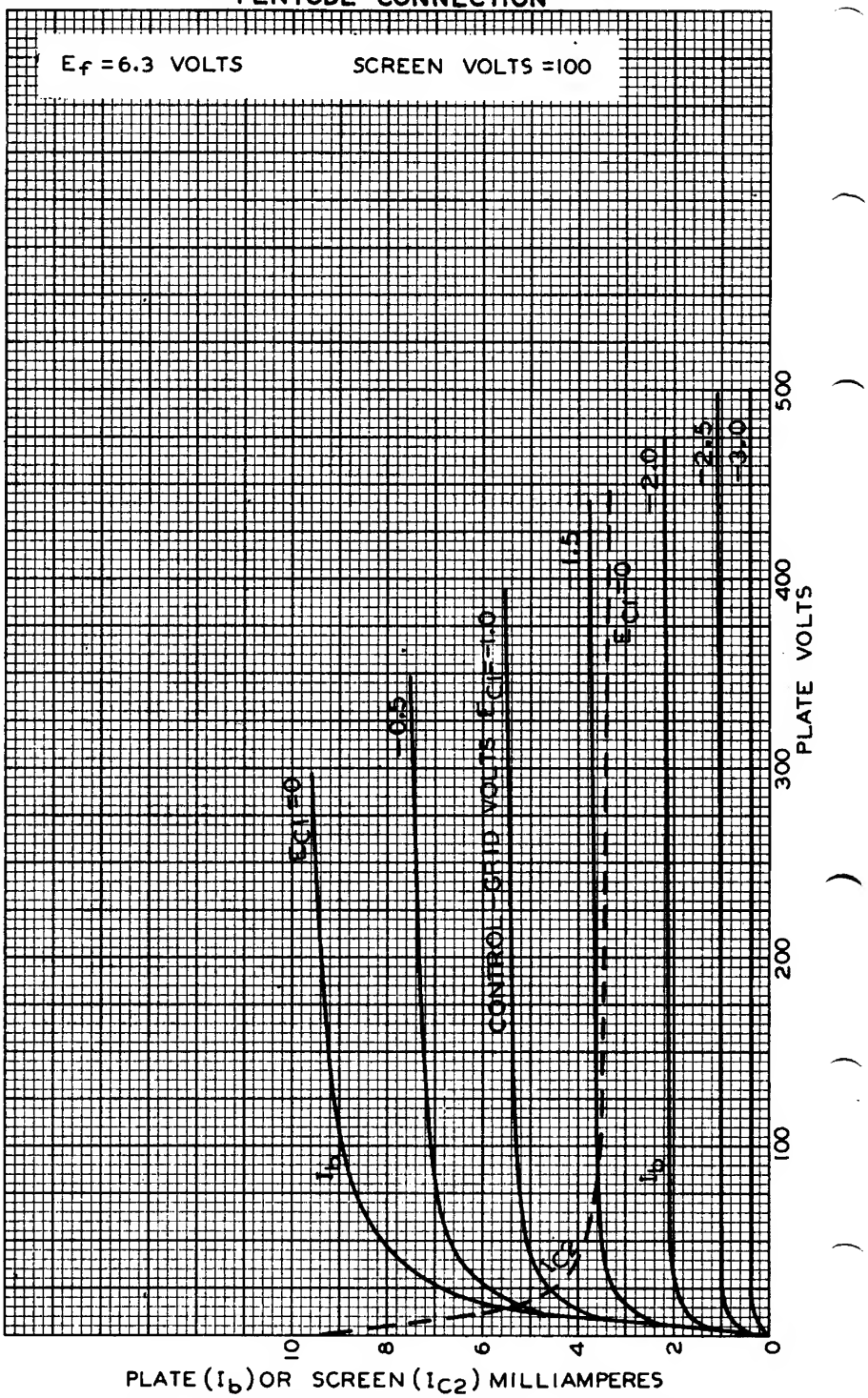
RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

6SH7

6SH7

AVERAGE PLATE CHARACTERISTICS

PENTODE CONNECTION



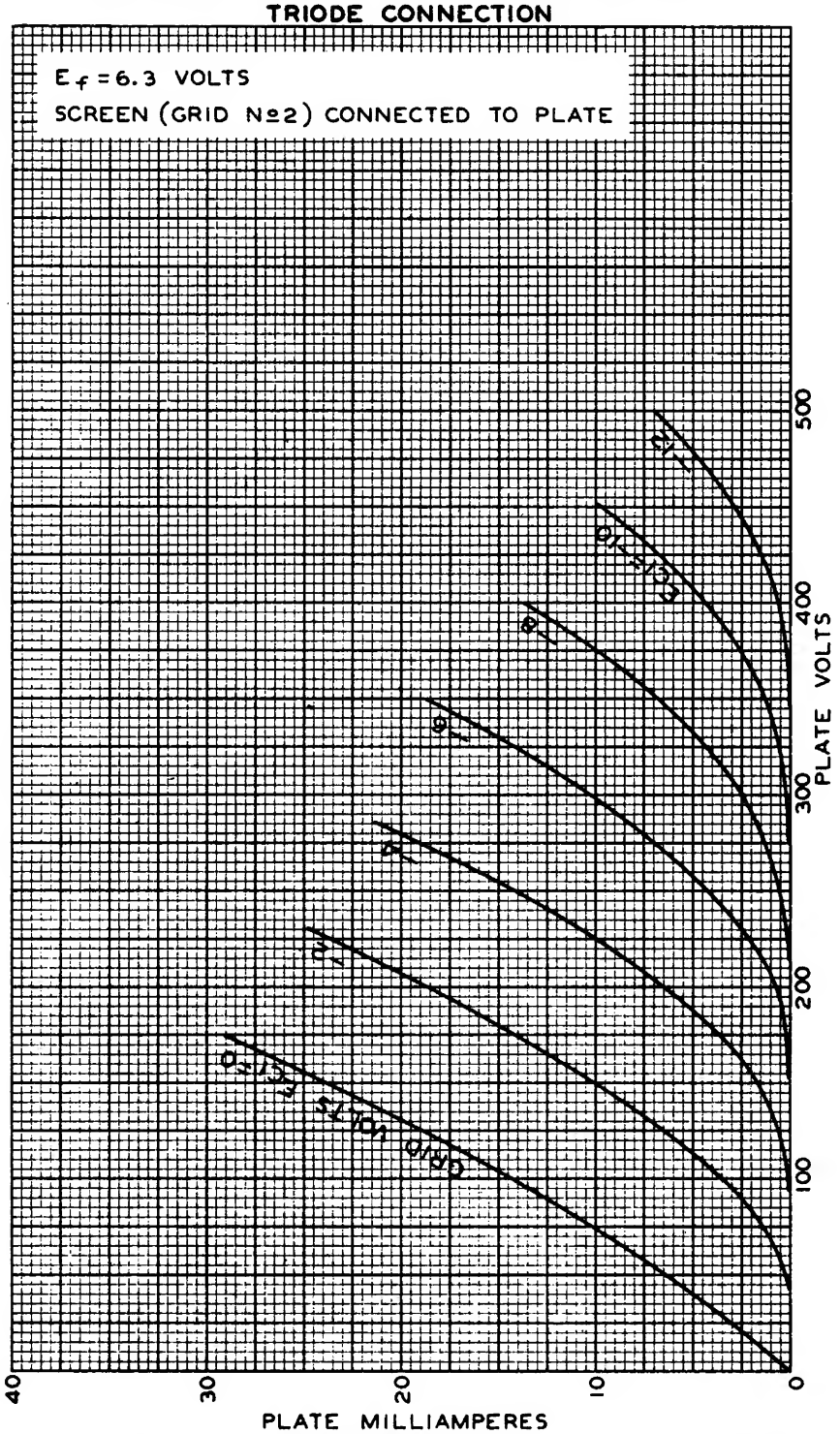
JULY 24, 1941 RCA RADIOTRON DIVISION RCA MANUFACTURING COMPANY, INC. 92C-6300

6SH7

6SH7

AVERAGE PLATE CHARACTERISTICS

TRIODE CONNECTION



MAY 11, 1942

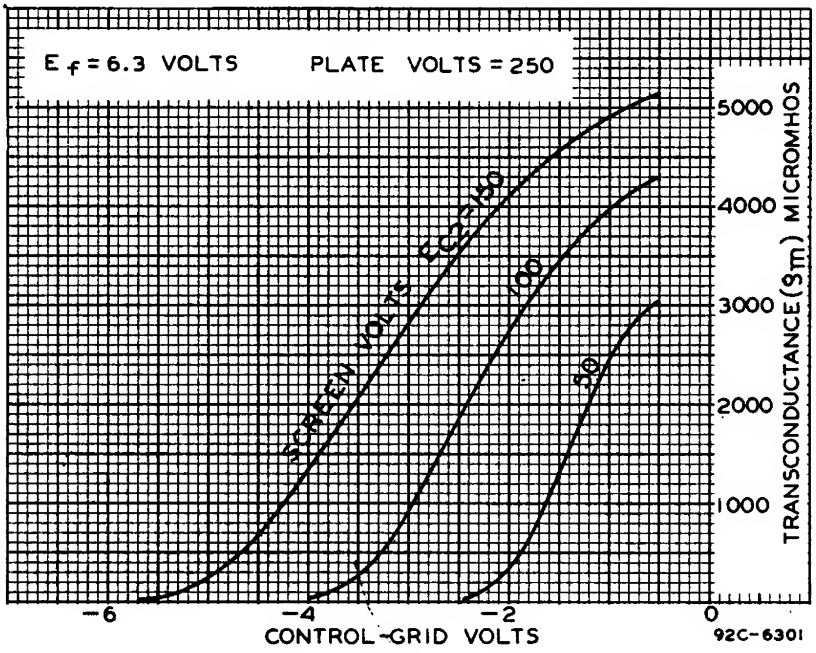
RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6395

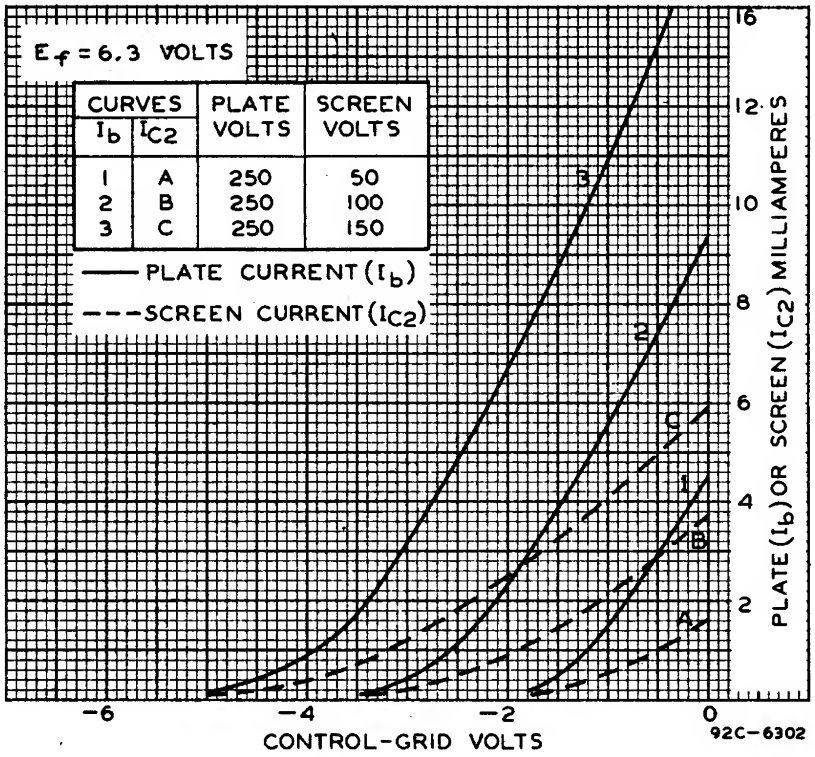
6SH7

6SH7

AVERAGE CHARACTERISTICS



AVERAGE CHARACTERISTICS



MAY 14, 1942

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6401